THE PATENT OFFICE OF THE PEOPLE'S REPUBLIC OF CHINA

FEB 2 3 2005

Address: 6 Xi Tu Cheng Lu, Haidian, Beijing

Post Code: 100088

Applicant:	NISSAN MOTOR CO., LTD.	
Attorney:	WANG YONGGANG	Date of Notification:
Application No.:	03159488.3	Date: 17 Month: 12 Year: 2004
Title of the Invention:	BIPOLAR BATTERY	Υ

Notification of the First Office Action

	above-identified patent a Republic of China(herei	application for invention nafter referred to as "the e has decided to examin	n under Article 3 e Patent Law").	ation has been carried out 5(1) of the Patent Law of n on its own initiative und	the People's
2.⊠ T	he applicant claimed pri	ority/priorities based on	the application	(s):	
	led in JP on	08/10/2002	, filed in		,
	led inon		, filed in	on	,
	led inon		, filed in	on	,
□ 7 a u	application(s) was/were The applicant has not pro	filed. ovided the priority docu filed and therefore the patent Law.	ments certified	by the Patent Office where the by the Patent Office where is/are deemed not to have	e the priority
1	The applicant submitted a the amendedthe amended	mendments to the application submitted or submitted or	n	and on and acceptable	
beca The	ause said amendments do	not comply with □Art □Rul	icle 33 of the Pa e 51 of the Implen		atent Law.
□ l pag pag pag	es of the descripti	on, claims and pa on, claims and pa on, claims and pa on, claims and pa	documents as spages of the ages ages of the age of the	ecified below: le drawings submitted on le drawings submitted on le drawings submitted on	,
⊠		ed with consideration of	f the search resu I in this Office	lts. Action(the reference num	ber(s) will be



No.	Number(s) or Title(s) of Reference(s)	Date of Publication		
		(or the filing date of conflicting application)		
1	JP 特开平 11-204136A	Date: 30 Month: 7 Year: 1999		
2		Date: Month: Year:		
6. Conclusions of the Action: ☐ On the Specification: ☐ The subject matter contained in the application is not patentable under Article 5 of the Patent Law. ☐ The description does not comply with Article 26 paragraph 3 of the Patent Law. ☐ The draft of the description does not comply with Rule 18 of the Implementing Regulations. ☑ On the Claims: ☐ Claim(s)				
8. Th (1)	view of the conclusions set forth above, the Examiner is of the opini The applicant should make amendments as directed in the text porti The applicant should expound in the response reasons why the amendments to the application where there are deficiencies as possible Notification, otherwise, the application will not be allowed. The application contains no allowable invention, and therefore sufficient reasons to prove that the application does have merits, it the followings should be taken into consideration by the applicant in medium of the Patent Law, the applicant should respond to counting from the date of receipt of the Notification. If, without an not met, the application shall be deemed to have been withdrawn. Any amendments to the application should be in conformity with Patent Law. Substitution pages should be in duplicate and the form conformity with the relevant provision contained in "The Examinati." The response to the Notification and/or revision of the application to the "Reception Division" of the Patent Office, and documents Reception Divisions have no legal effect. Without an appointment, the applicant and/or his agent shall not Patent Office.	on of the Notification. e application is patentable and make binted out in the text portion of the c, if the applicant fails to submit will be rejected. making the response: to the office action within 4 months by justified reason, the time limit is the provisions of Article 33 of the mat of the substitution should be in on Guidelines". should be mailed to or handed over not mailed or handed over to the		
	9. This Notification contains a text portion of <u>2</u> pages and the following attachments: □ <u>1</u> cited reference(s), totaling <u>3</u> pages. □			
Exa	amination Dept. A Examiner: LI HUA	Seal of the Examination Department		

Text of Notification of the First Office Action

The application relates to a bipolar battery. After examination, the examiner comes to the following opinions.

- 1. Claim 1 seeks protection of a bipolar battery. Reference 1 discloses a bipolar battery (see col. 2, paragraphs 9-11). Said bipolar battery comprises a positive electrode layer (12) on one side of a collecting foil, and a negative electrode layer (14) on the other side of the collecting foil; and a polymer electrolyte layer (10) disposed between the bipolar electrodes, wherein an insulation layer (22) is provided on a periphery of at least one side of the collecting foil. Accordingly, Reference 1 discloses all features of claim 1; moreover, both Reference 1 and the application belong to the same field, solve the same problem, contain the same solution, and lead to the same effect. Therefore, claim 1 does not have the novelty as required by Article 22 (2) of the Chinese Patent Law (CPL).
- 2. Reference 1 discloses the feature of "the insulation layer (22) provided on the periphery of the collecting foil is protruded outward beyond the collecting foil" (see Fig. 1), and discloses that the feature is included for preventing short circuit. Thus, in light of Reference 1, it will be obvious to those skilled in the field to conceive the idea of making a protruding length longer than a thickness of one single cell. Namely, it will be obvious to those skilled in the field to obtain the solution to be protected by claim 2 based on the teachings of Reference 1. Therefore, claim 2 does not possess a substantive feature and does not represent a notable progress, and thus does not have the inventiveness as required by Article 22 (3) of the CPL.
- 3. The insulation layer is provided on the periphery of the collecting foil for preventing short circuit. For a better effect of preventing short circuit, those skilled in the field will conceive the idea of bonding the insulation layer to the collecting foil without a creative work. Namely, it will be obvious to those skilled in the field to obtain the solution to be protected by claim 3 based on the teachings of Reference 1. Therefore, claim 3 does not possess a substantive feature and does not represent a notable progress, and thus does not have the inventiveness as required by Article 22 (3) of the CPL.
- 4. Reference 1 discloses that the insulation layer (22) is made of PE, PP or PTFE, i.e. the insulation layer is flexible (see col. 2, paragraph 11). Namely, Reference 1 discloses all features of claim 4; moreover, both Reference 1 and the application belong to the same field, solve the same problem, contain the same solution, and lead to the same effect. Therefore, claim 4 does not have the novelty as required by Article 22 (2) of the CPL.

- 5. The additional features are defined in claims 5-7 for a better effect of preventing short circuit. It will be obvious to those skilled in the filed to conceive the idea of covering the ends of respective bipolar electrodes. Namely, it will be obvious to those skilled in the field to obtain the solutions to be protected by claims 5-7 based on the teachings of Reference 1. Therefore, claims 5-7 do not possess a substantive feature and do not represent a notable progress, and thus do not have the inventiveness as required by Article 22 (3) of the CPL.
- 6. Claim 8 seeks protection of vehicle comprising a power source having a bipolar battery. Reference 1 discloses a bipolar battery (see col. 2, paragraphs 9-11). Said bipolar battery comprises a positive electrode layer (12) on one side of a collecting foil, and a negative electrode layer (14) on the other side of the collecting foil; and a polymer electrolyte layer (10) disposed between the bipolar electrodes, wherein an insulation layer (22) is provided on a periphery of at least one side of the collecting foil. Accordingly, Reference 1 discloses all features of claim 8. It will be obvious to those skilled in the field to obtain the solution to be protected by claim 8 by applying the battery claimed in claim 1 to a vehicle. No creative work will be needed. Moreover, such an application doe not have any unexpected effects. Therefore, claim 8 does not have a substantive feature and does not represent a notable progress, and thus does not have the inventiveness as required by Article 22 (3) of the CPL.

In a conclusion, the independent and dependent claims of the application do not have the novelty and inventiveness, meanwhile, the description records no allowable invention. Therefore, even if the applicant recombines and/or further defines the claims according to the recordings of the description, the application will have no prospect of being allowed. If the applicant fails to expound sufficient why the invention has the novelty and inventiveness, the application will be finally rejected under Article 38 and Rule 53.

The Articles and the Rules cited by the examiner

Article 22 Any invention or utility model for which patent right may be granted must possess novelty, inventiveness and practical applicability.

Novelty means that, before the date of filing, no identical invention or utility model has been publicly disclosed in publications in the country or abroad or has been publicly used or made known to the public by any other means in the country, nor has any other person filed previously with the Patent Administration Department Under the State Council an application which described the identical invention or utility model and was published after the said date of filing.

Inventiveness means that, as compared with the technology existing before the date of filing, the invention has prominent substantive features and represents a notable progress and that the utility model has substantive features and represents progress.

Practical applicability means that the invention or utility model can be made or used and can produce effective results.



中华人民共和国国家知识产权局

邮政编码: 100037	发文日期
北京市阜成门外大街 2 号万通新世界广场 8 层	The state of the s
中国国际贸易促进委员会专利商标事务所	(80.
王永刚	1
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申请号: 031594883	THE WALL
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 申请人:日产自动车株式会社	The state of the s
, 于阴八: 口) 日 初于 你又去在	
发明创造名称:双极电池	
第一次审查意见通知书	
第一人中国思光超州 [5]	
1. ☑应申请人提出的实审请求,根据专利法第35条第Ⅰ款的规定,国家知识	产权局对上述发明专利申请进
行实质审查。	
□根据专利法第 35 条第 2 款的规定,国家知识产权局决定自行对上述发明	专利申请进行审查。
2. ☑申请人要求以其在: JP 专利局的申请日 2002 年 10 月 08 日为优先权日,	
专利局的申请日 年 月 日为优先权日,	
专利局的申请日 年 月 日为优先权日,	
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专利局的申请日 年 月 日为优先权日。	
☑申请人已经提交了经原申请国受理机关证明的第一次提出的在先申请文☑申请人尚未提交经原申请国受理机关证明的第一次提出的在先申请文件	
一旦申请人同本提父经原申请国受理机关证明的第一次提出的任允申请义件的规定视为未提出优先权要求。	的副本,根据专利法第 30 条
3. □ 经审查,申请人于:	
年 月 日提交的 不符合实施细则第 51 条的规定;	
年 月 日提交的 不符合专利法第 33 条的规定;	
年 月 日提交的	
4. 审查针对的申请文件: ☑原始申请文件。 □审查是针对下述申请文件的	
	村图第 页;
	,
	页、附图第 页;
	页、附图第 页;
年 月 日提交的说明书摘要, 年 月 E 5. □本通知书是在未进行检索的情况下作出的。]提交的摘要附图。
☑本通知中定任不进行位案的情况下作出的。 ☑本通知书是在进行了检索的情况下作出的。	
☑本通知书引用下述对比文献(其编号在今后的审查过程中继续沿用):	
编号 文件号或名称 公开日期(或抵触申请	背的申请日)
1 月2041364 1999-07-30	
6. 审查的结论性意见:	
□关于说明书: □申请的内容属于专利法第 5 条规定的不授予专利权的范围。	
□中谓的内谷属丁专利法弟 3 条规定的小技丁专利权的犯围。 □说明书不符合专利法第 26 条第 3 款的规定。	

□说明书不符合专利法第 33 条的规定。
□说明书的撰写不符合实施细则第 18 条的规定。
☑关于权利要求书:
☑权利要求1,4_不具备专利法第22条第2款规定的新颖性。
☑权利要求 2-3, 5-8不具备专利法第 22 条第 3 款规定的创造性。
☑权利要求不具备专利法第22条第4款规定的实用性。
工 权利要求属于专利法第 25 条规定的不授予专利权的范围。
[权利要求不符合专利法第 26 条第 4 款的规定。
□权利要求不符合专利法第31条第1款的规定。
□权利要求不符合专利法第33条的规定。
□权利要求不符合专利法实施细则第2条第1款关于发明的定义。
□权利要求不符合专利法实施细则第 13 条第 1 款的规定。
□权利要求不符合专利法实施细则第 20 条的规定。
□权利要求不符合专利法实施细则第 21 条的规定。
□权利要求不符合专利法实施细则第 22 条的规定。
☑权利要求不符合专利法实施细则第 23 条的规定。
上述结论性意见的具体分析见本通知书的正文部分。
7. 基于上述结论性意见,审查员认为:
□申请人应按照通知书正文部分提出的要求,对申请文件进行修改。
□申请人应在意见陈述书中论述其专利申请可以被授予专利权的理由,并对通知书正文部分中指出的不符
合规定之处进行修改,否则将不能授予专利权。
☑专利申请中没有可以被授予专利权的实质性内容,如果申请人没有陈述理由或者陈述理由不充分,其申
请将被驳回。
8. 申请人应注意下述事项:
(1)根据专利法第37条的规定,申请人应在收到本通知书之日起的肆个月内陈述意见,如果申请人无正当理
由逾期不答复,其申请将被视为撤回。
(2) 申请人对其申请的修改应符合专利法第 33 条的规定,修改文本应一式两份,其格式应符合审查指南的有
关规定。 (2) 中基上的亲见陈泽龙和 (武族北京大院城家武道齐国宗初识文权 目 大利尼亚亚 (4) 中土城市 (3) 大汉亚
(3)申请人的意见陈述书和/或修改文本应邮寄或递交国家知识产权局专利局受理处,凡未邮寄或递交给受理
处的文件不具备法律效力。 (4)未经预约,申请人和/或代理人不得前来国家知识产权局专利局与审查员举行会晤。
(4) 不经现约,中语人和/或代理人不得而不国家知识广议局专利局与申查页举行会暗。 9. 本通知书正文部分共有 2 页,并附有下述附件:
5. 本通知节正义部分共有
<u>四 1/10 田 </u>

审查部门 电学发明审查部

第一次审查意见通知书正文

申请号: 031594883

本申请涉及一种双极电池,经审查,意见如下。

- 1. 权利要求1请求保护一种双极电池,对比文件1(参见说明书第2栏第9-11段,图1)公开了一种双极电池。该电池具有在集电箔的一侧上的正极层12和集电箔的另一侧上的负极层14的双极电极;和在双极电极之间设置的聚合物电解质层10,在集电箔至少一侧的外围上设置绝缘层22。由此可见,对比文件1公开了权利要求1的所有技术特征,并且两者属于相同的技术领域,为了解决相同的技术问题,采用相同的技术方案,达到相同的技术效果。因此,权利要求1不具有新颖性,不符合专利法第22条第2款的规定。
- 2. 对比文件1(参见图1)公开了在集电箔的外围上设置绝缘层22向外突出到集电箔之外这一技术特征,并且采用这一技术特征是为了防止短路。因此,本领域技术人员在对比文件1的启示下为了防止短路,想到使突出长度长于一个单电池的厚度是容易的。因此,本领域技术人员在对比文件1的基础上得到权利要求2请求保护的技术方案是显而易见的。因此,权利要求2不具有突出的实质性特点和显著的进步,不符合专利法第22条第3款规定的创造性。
- 3. 在集电箱的外围设置绝缘层,是为了防止短路。为了更好的防止短路,本领域技术人员,想到将绝缘层粘接到集电箱上是不需要创造性劳动的。因此,本领域技术人员在对比文件1的基础上得到权利要求3请求保护的技术方案是显而易见的。因此,权利要求3不具有突出的实质性特点和显著的进步,不符合专利法第22条第3款规定的创造性。
- 4. 对比文件1(参见说明书第2栏第11段)公开了绝缘层22由PE、PP、PTFE制成 (即绝缘层是挠性的)。由此可见,对比文件1公开了权利要求4的所有技术特征,并 且两者属于相同的技术领域,为了解决相同的技术问题,采用相同的技术方案,达 到相同的技术效果。因此,权利要求4不具有新颖性,不符合专利法第22条第2款的 规定。
- 5. 权利要求5、6、7的附加技术特征都是为了更好的防止短路,本领域技术人员想到用粘性绝缘层覆盖各双极电极的端部是容易的。因此,本领域技术人员在对比文件的基础上分别得到权利要求5、6、7请求保护的技术方案是显而易见的。因此,

权利要求5、6、7不具有突出的实质性特点和显著的进步,不符合专利法第22条第3款规定的创造性。

6. 权利要求8请求保护一种车辆,该车辆包括具有双极电池的电源。对比文件1(参见说明书第2栏第9-11段,图1)公开了一种双极电池。该电池具有在集电箔的一侧上的正极层12和集电箔的另一侧上的负极层14的双极电极;和在双极电极之间设置的聚合物电解质层10,在集电箔至少一侧的外围上设置绝缘层22。由此可见,对比文件1公开了权利要求8中所述电池的所有技术特征。本领域技术人员将对比文件1所述的电池应用到车辆上得到权利要求8请求保护的技术方案是不需要创造性劳动的,并且也没有带来意想不到的技术效果。因此,权利要求8不具有突出的实质性特点和显著的进步,不符合专利法第22条第3款规定的创造性。

基于上述理由,本申请的独立权利要求以及从属权利要求都不具备新颖性或创造性,同时说明书中也没有记载其他任何可以授予专利权的实质性内容,因而即使申请人对权利要求进行重新组合和/或根据说明书记载的内容作进一步的限定,本申请也不具备被授予专利权的前景。如果申请人不能在本通知书规定的答复期限内提出表明本申请具有创造性的充分理由,本申请将被驳回。

审查员: 李华

代码: A217